



# बिहार गजट

## असाधारण अंक

# बिहार सरकार द्वारा प्रकाशित

17 आश्विन 1934 (श०)

(सं० पटना ५३६) पटना, मंगलवार, ९ अक्टूबर 2012

पशु एवं मत्स्य संसाधन विभाग  
(मत्स्य)

अधिसूचना  
01 अक्टूबर 2012

सं० म०/स्था०रा०प० – ०६/१९८४–१४३२—पशु एवं मत्स्य संसाधन(मत्स्य) विभाग की अधिसूचना संख्या—३०९४ दिनांक २३.०८.२००७ द्वारा विभागाधीन मत्स्य प्रसार पदाधिकारी / कनीय मत्स्य अनुसंधान पदाधिकारी एवं मत्स्य प्रसार पर्यवेक्षक के पदों पर बिहार कर्मचारी चयन आयोग के माध्यम से अनुशंसा प्राप्त कर सीधी नियुक्ति का प्रावधान किया गया है।

२. मत्स्य प्रसार पदाधिकारी / कनीय मत्स्य अनुसंधान पदाधिकारी एवं मत्स्य प्रसार पर्यवेक्षक के पद पर सीधी नियुक्ति हेतु विभागीय भर्ती नियमावली में न्यूनतम शैक्षणिक योग्यता निर्धारित है परन्तु उसका पाठ्यक्रम निर्धारित नहीं किया गया था।

३. अतः मत्स्य प्रसार पदाधिकारी / कनीय मत्स्य अनुसंधान पदाधिकारी एवं मत्स्य प्रसार पर्यवेक्षक के पद पर सीधी नियुक्ति हेतु विभागीय भर्ती नियमावली में निर्धारित न्यूनतम शैक्षणिक योग्यता के आधार पर एतद् द्वारा निम्न रूपेण पाठ्यक्रम का निर्धारण किया जाता है:-

(क) मत्स्य प्रसार पदाधिकारी / कनीय मत्स्य अनुसंधान पदाधिकारी के पद पर सीधी नियुक्ति हेतु पाठ्यक्रम:

### UNIT-1: Fishery resources and management & Fish Biology.

Classification and taxonomical characteristics of cultivable fisheries, crustaceans and molluscs. Fresh water and pond ecosystem. Population dynamics, fish stock, abundance methods and analysis. Conservation and management of fishery resources. Impact of over exploitation and climate change on fisheries resources. Culture & Capture fisheries resource of Bihar & present status along its present production of fish and fish seed vis-à-vis supply & demand. Fin fish & shell fish anatomy and its various aspects of biology.

### UNIT-2: Fish aquaculture.

Reproduction and breeding behaviour in fishes and shellfishes, brood stock improvement, maturity and fecundity studies. Induced spawning methods and seed production, natural fish seed collection and rearing methods. Types of eggs and

development of larval stages of fin fishes and shellfishes. Preparation and management of fresh water and brackish water fishponds. Cultivable species identification, introduction of exotic fishes in India. Culture methods: Pen and cage culture practices, carp and shrimp hatchery management, basic aspects of biotechnology & genetics in relation to fisheries. Fish disease and its control. Ornamental fish Breeding and its culture. Types of fish culture. Capture and culture fisheries in low lying water bodies.

### **UNIT-3: Ecology of water bodies.**

Important limnological and biological parameters in relation to fisheries of lotic and lentic waters, biological productivity and its impact on fisheries. Environmental impact assessment on fisheries in lentic and lotic waters. Biological parameters including energy flow, community ecology and aquatic association, biodiversity and its conservation, aquatic pollution and its management

### **UNIT-4: Harvest and post harvest technology.**

Common crafts and gears used for fish capture. Boat building material and demerits of wood, steel, aluminium, Ferro cement and FRP. Different types of fibres and netting materials and their characteristics, preservation of netting, parts of a trammel net, purse-seine, gill net and tuna long line. Food chemistry, fundamentals of microbiology. General methods of fish preservation and fishery by products. Canning and packaging techniques, processing and product development techniques.

### **UNIT-5: Fisheries economics, extension & statistics.**

Introduction to fishery economics and concepts of cooperative, marketing and banking management. Supply v/s demand economics of hatchery management and fish culture operations. Profit maximization. Problems in estimating costs and returns in fisheries. Fisheries extension methods. Training and education needs in fisheries. Communication concepts, Modern tools of fishery extension education, participatory rural appraisal (PRA), Rapid rural appraisal (RRA), role of women in fisheries; Basics of statistics in fisheries and computer science.

(ख) मत्स्य प्रसार पर्यवेक्षक के पद पर सीधी नियुक्ति हेतु पाठ्यक्रमः

### **UNIT-1: Fishery resources and management & Fish Biology.**

Classification and taxonomical characteristics of cultivable fisheries, crustaceans and molluscs. Fresh water, and pond ecosystem. Conservation and management of fishery resources. Impact of over exploitation and climate change on fisheries resources. Culture & Capture fisheries resource of Bihar & present status along its present production of fish and fish seed vis-à-vis supply & demand.

### **UNIT-2: Fish aquaculture.**

Reproduction and breeding behaviour in fishes and shellfishes, brood stock improvement, maturity and fecundity studies. Induced spawning methods and seed production, natural fish seed collection and rearing methods. Types of eggs and development of larval stages of fin fishes and shellfishes. Preparation and management of freshwater fishponds. Cultivable species identification, introduction of exotic fishes in India. Culture methods: Pen and cage culture practices, carp and shrimp hatchery management. Fish disease and its control. Ornamental fish Breeding and its culture. Aquarium keeping, construction and maintenance. Types of fish culture. Capture and culture fisheries in low lying water bodies.

### **UNIT-3: Ecology of water bodies.**

Important limnological and biological parameters in relation to fisheries of lotic and lentic waters, biological productivity and its impact on fisheries. Biodiversity and its conservation, aquatic pollution and its management

### **UNIT-4: Post harvest technology.**

General methods of fish preservation. Fishery by products.

**UNIT-5: Fisheries economics & extension .**

Introduction to fishery economics, Demand & supply, concepts of cooperative & marketing management. Profit maximization. Problems in estimating costs and returns in fisheries. Fisheries extension methods. Training and education needs in fisheries

4. उपर्युक्त निर्धारित पाठ्यक्रम के आधार पर ही बिहार कर्मचारी चयन आयोग, पटना द्वारा लिखित परीक्षा का आयोजन कर सुযोग्य उम्मीदवार का चयन करते हुए उनकी अनुशंसा विभाग को की जाएगी।

बिहार—राज्यपाल के आदेश से,  
(ह०) अस्पष्ट,  
सरकार के विशेष सचिव।

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अधीक्षक, सचिवालय मुद्रणालय,

बिहार, पटना द्वारा प्रकाशित एवं मुद्रित।

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Website: <http://egazette.bih.nic.in>